

3 - 1

**Add or Subtract
Signed Numbers**

Addition Property of Opposites

$$a + (-a) = 0$$

$$\text{Ex: } -3 + 3 = 0$$

$$\text{Ex: } 5 + (-5) = 0$$



Identity Property of Addition

$$a + 0 = a$$

$$\text{Ex: } 7 + 0 = 7$$

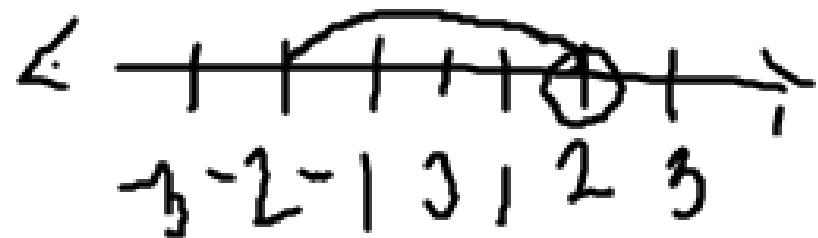
$$\text{Ex: } 0 + (-2) = -2$$



Add the following.

$$\text{Ex: } 4 + 3 = 7$$

$$\text{Ex: } 2 + (-4) = -2$$



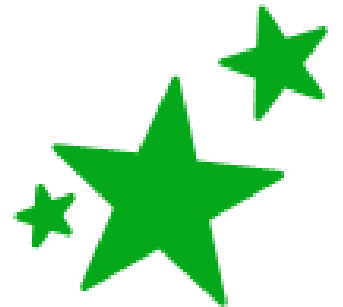
think about a number line



absolute value:

$$\text{Ex: } |4| =$$

$$\text{Ex: } |-3| =$$

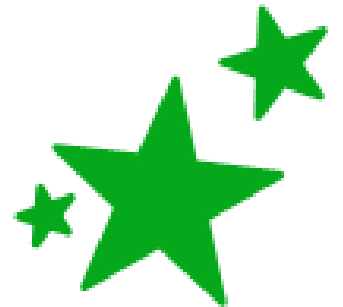


1.) add two numbers with the **SAME** sign

** add the numbers and use that sign

Ex: $3 + 6 = 9$

Ex: $-4 + (-7) = -11$

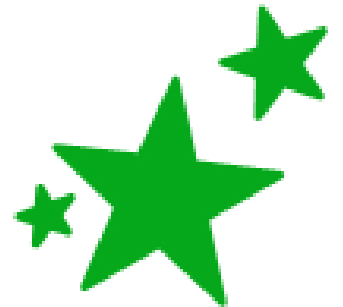


2.) add two numbers with DIFFERENT signs

** subtract the numbers and use the sign of the larger one

$$\text{Ex: } 4 + (-7) = -3$$

$$\text{Ex: } -6 + 11 = +5$$



Subtraction

****turn them into addition problems**

$$\text{Ex: } -7 + (+6) =$$
$$-7 + 6 = \textcircled{-1}$$

$$\text{Ex: } 8 - 12 =$$
$$8 + -12 = \textcircled{-4}$$



In-Class Work:

p. 106 #16 - 26 even

(No calculators!)

